Notice of Allowability	Application No.	Applicant(s)	
	10/701,824	CHANG ET AL.	
	Examiner	Art Unit	
	Hsien-ming Lee	2823	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet w (OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS	е
1. This communication is responsive to 6/27/05.			
2. X The allowed claim(s) is/are 1-13.			
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☐ Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Applicat	ion No ed in this national stage application from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Revi	ew ( PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on he header according to 37 (	the drawings in the front (not the back) of FR 1.121(d).	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT.			
Attachment(s)	_		
1. Notice of References Cited (PTO-892)		Informal Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), o./Mail Date	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		s Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner	s Statement of Reasons for Allowance	
• • • • • • • • • • • • • • • • • • •	9. 🔲 Other		
		HSIEN-MING LEE PRIMARY EXAMINED	
		9/1/05	

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# **DETAILED ACTION**

### Remarks

- 1. The objection and rejection, as set forth in the previous Office action, has been withdrawn in response to applicant's amendment filed 6/27/05.
- 2. The replaced drawings filed 6/27/05 have been approved by the examiner.

# Examiner's Amendment

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. The application has been amended as follows:

In claim 4, at line 2, delete "around" before "from. "

In claim 10, at line 3, insert -- a -- before "test area."

In claim 11, at line 2, replace "the grid" with -- a grid --.

# Allowable Subject Matter

- 5. Claims 1-13 are allowed.
- 6. The following is an examiner's statement of reasons for allowance:

The prior art of record at least neither teaches nor suggests a test pattern disposed within a first interior area, the test pattern fabricated using a shallow trench adapted for testing of shallow trench isolation gap fill, the test pattern comprising a border at least partially enclosing a second interior; that the square rectangular region comprises an area of around  $1 \mu m^2$ ; a width of the test pattern border is from around  $0.085 \mu m$  to around  $0.200 \mu m$ ; the test pattern defines a

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rectangle, comprising border comprising a width of around 0.3 µm, the test pattern further comprising a height of around one-half the height of the rectangular region and a width of from around 0.085 µm to around 0.200 µm; the rectangle with contiguous border is adapted to simulate a corner region of a static random access memory cell; the rectangle with one discontinuity in its border comprises a discontinuity of around 0.1 µm; the rectangle with one discontinuity in its border comprises two discontinuous border segments, each comprising a first section intersecting a second section at a substantially right angle; the test pattern defining a border to a third interior area.

- 7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hsien-ming Lee whose telephone number is 571-272-1863. The examiner can normally be reached on Tuesday-Thursday  $(7:30 \sim 6:00)$ .

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hsien-ming Lee Primary Examiner Art Unit 2823

Sep. 1, 2005

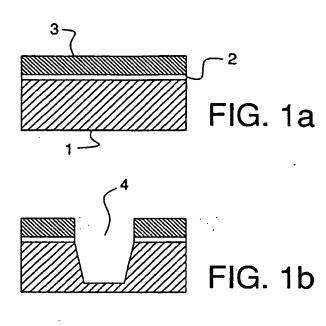
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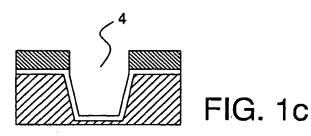


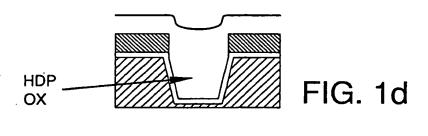
### REPLACEMENT SHEET

1/3



approved Lee 9//55





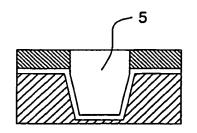


FIG. 1e

